

UNIT 3 & 4 VOCATIONAL MAJOR NUMERACY

VCE Vocational Major Numeracy focuses on enabling students to develop and enhance their numeracy skills to make sense of their personal, public and vocational lives. Students develop mathematical skills with consideration of their local, national and global environments and contexts, and an awareness and use of appropriate technologies.

UNIT 3

In this unit students will learn procedures for the solution of expressions and equations will be discussed and used to solve problems including predicting a required quantity or finding a break-even point. Students will investigate and model a range of financial contexts including credit cards, savings and loans. Students also solve problems within the context of taxation, wages, GST, insurance and superannuation. Students will investigate the costs associated with overseas travel including transport, accommodation and the impacts of exchange rates. The focus of the learning is applied and project based with an emphasis on developing competencies rather than maximizing test scores.

AREA OF STUDY

- Number
- Shape
- Quantity and measures
- Relationships.

OUTCOMES

Outcome 1: Demonstrate a range of different numeracy skills and capabilities in order to make sense of their daily personal, public and vocational lives.

Outcome 2: Select, interpret and use the four stages of the mathematical problem-solving cycle, using a range of both informal and formal mathematical processes, representations, and conventions.

Outcome 3: select and effectively and accurately use the appropriate mathematical tools and applications chosen from a developing mathematical toolkit.

UNIT 4

In this unit students will investigate how to interpret, use and create plans, elevations, maps, models and diagrams. They will apply procedures for the solution of personal, societal and workplace problems involving metric measurement with consideration of error, required accuracy and tolerances. Student plan and develop cost estimate for construction and renovation projects using the concepts of length, surface area and volume. Students also investigate the costs associated with owning and running a vehicle including upfront/lease expenses, fuel, maintenance and insurance.

NUMERACY CONTEXTS

- Personal numeracy
- Civic numeracy
- Financial numeracy
- Health numeracy
- Vocational numeracy
- Recreational numeracy.

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